

INCH-POUND

MIL-DTL-55302/182B

13 September 2002

SUPERSEDING

MIL-C-55302/182A

26 December 1989

DETAIL SPECIFICATION SHEET

CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES: GUIDE PINS, JACKCREWS AND MOUNTING EARS

This specification is approved for used by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall
consist of this specification and MIL-DTL-55302.

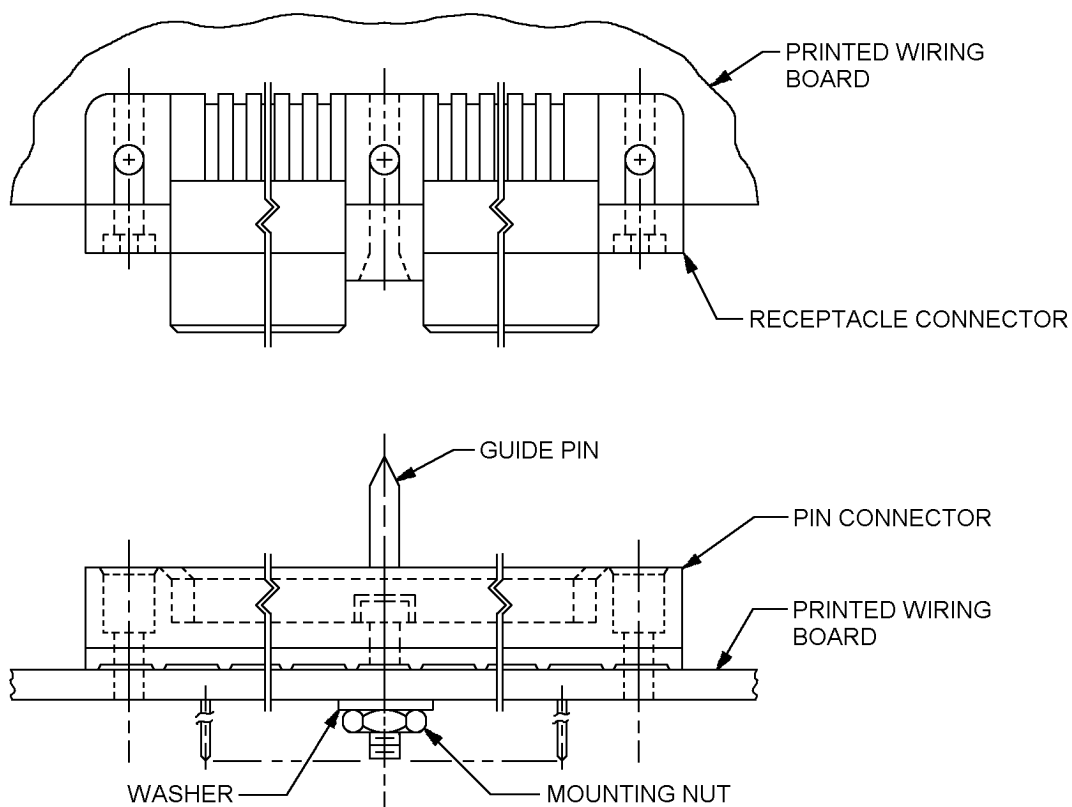
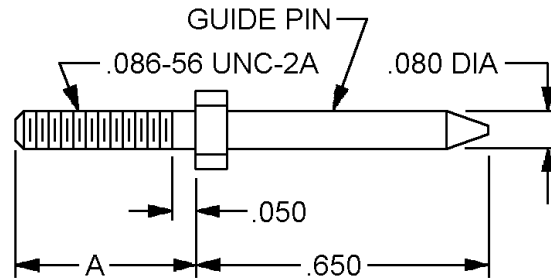
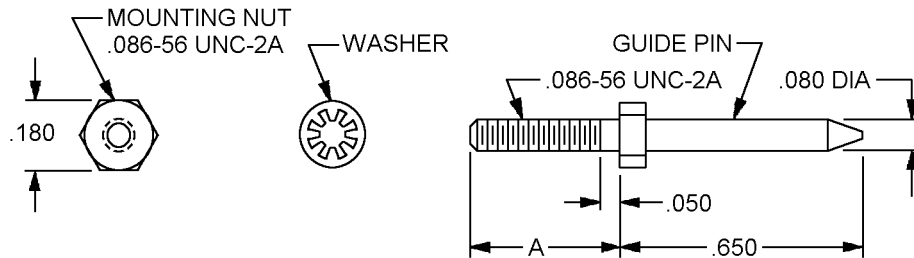


FIGURE 1. Installation of pin guide.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm).

FIGURE 2. Guide pin, M55302/182-01, -02, and -03.

Guide pin number	A	Figure
M55302/182-01	.475	2
M55302/182-02	.562	2
M55302/182-03	.750	2
M55302/182-04	.475	3
M55302/182-05	.562	3
M55302/182-06	.750	3

Inches	mm
.050	1.27
.080	2.03
.086	2.18
.180	4.57
.475	12.06
.562	14.27
.650	16.51
.750	19.05

NOTES:

1. Dimensions are in inches.
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3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm).

FIGURE 3. Guide pin kit, M55302/182-04, -05, and -06.

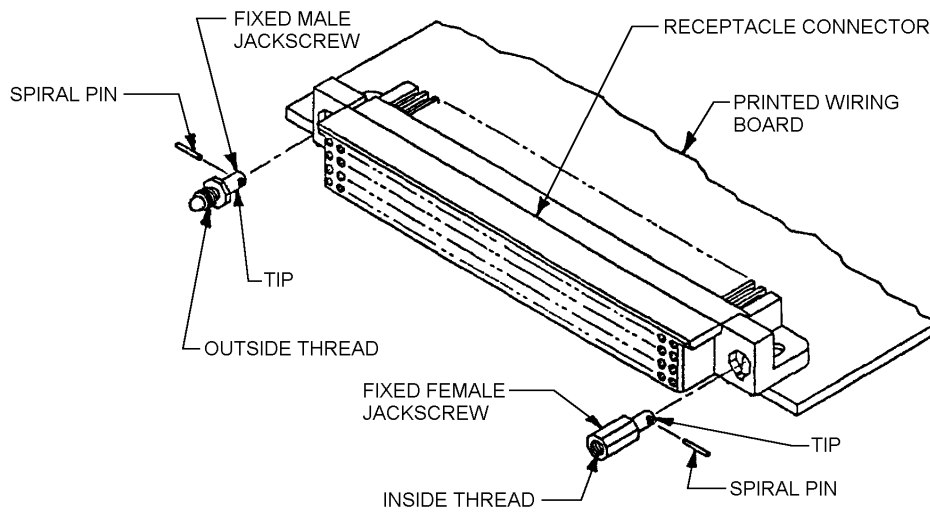


FIGURE 4. Installation of fixed jackscrews.

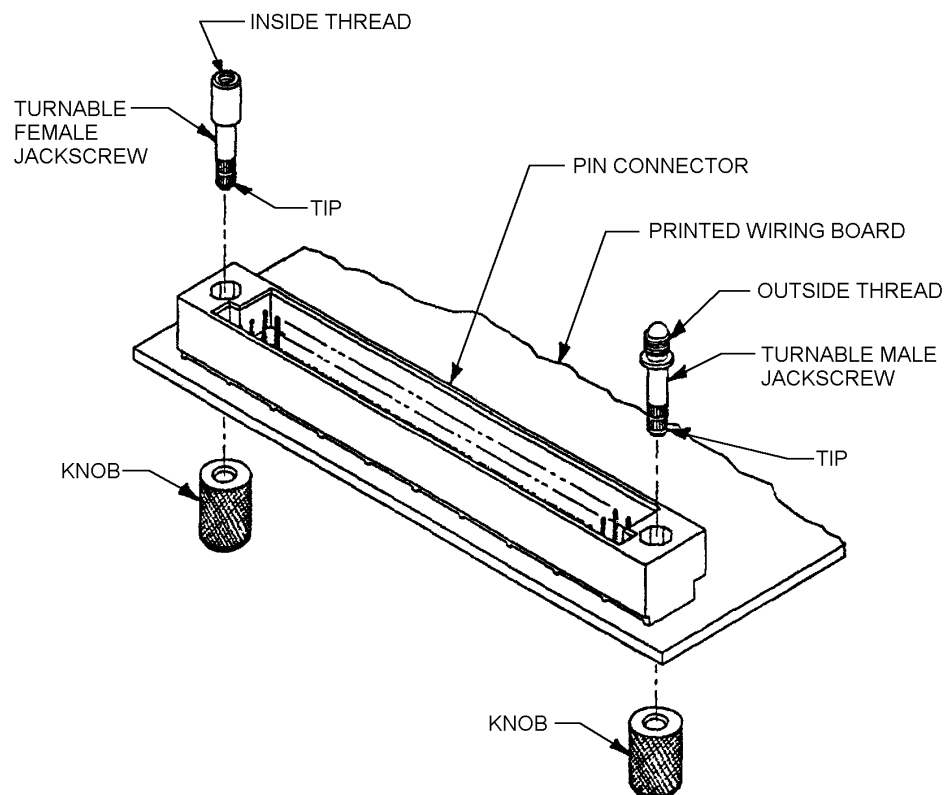


FIGURE 5. Installation of turnable jackscrews.

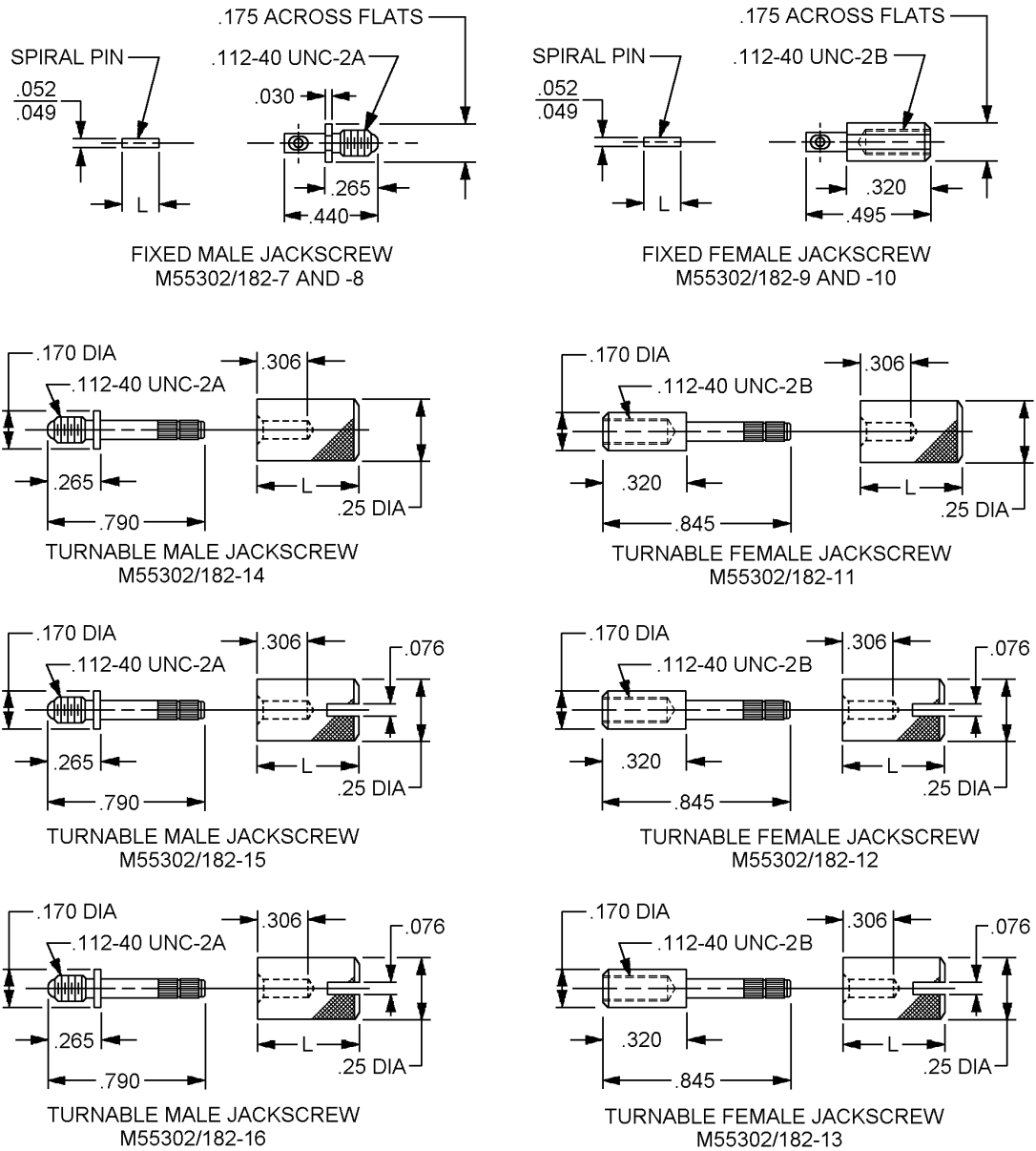


FIGURE 6. Jackscrews.

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Type	Jackscrew PIN	Style	L	Figure	Used in receptacle assembly	Mating PIN assembly	Mating jackscrew		L	Figure
							PIN	Style		
VII	M55302/182-07	Fixed male	.187	4, 6	M55302/177 M55302/180	M55302/176 M55302/179	M55302/182-11	Turnable female	.50	5, 6
							M55302/182-12		.50	
							M55302/182-13		1.25	
VIII	M55302/182-08	Fixed male	.140	4, 6	M55302/174	M55302/173	M55302/182-11	Turnable female	.50	
							M55302/182-12		.50	
							M55302/182-13		1.25	
IX	M55302/182-09	Fixed female	.187	4, 6	M55302/177 M55302/180	M55302/176 M55302/179	M55302/182-14	Turnable male	.50	
							M55302/182-15		.50	
							M55302/182-16		1.25	
X	M55302/182-010	Fixed female	.140	4, 6	M55302/174	M55302/173	M55302/182-14	Turnable male	.50	
							M55302/182-15		.50	
							M55302/182-16		1.25	

Inches	mm	Inches	mm
.030	0.76	.265	6.73
.049	1.24	.306	7.77
.052	1.32	.320	8.13
.076	1.93	.440	11.18
.112	2.84	.495	12.57
.140	3.56	.50	12.7
.170	4.32	.790	20.07
.175	4.44	.845	21.46
.187	4.75	1.25	31.8
.25	6.4		

NOTES:

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2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm).

FIGURE 6. Jackscrews - Continued.

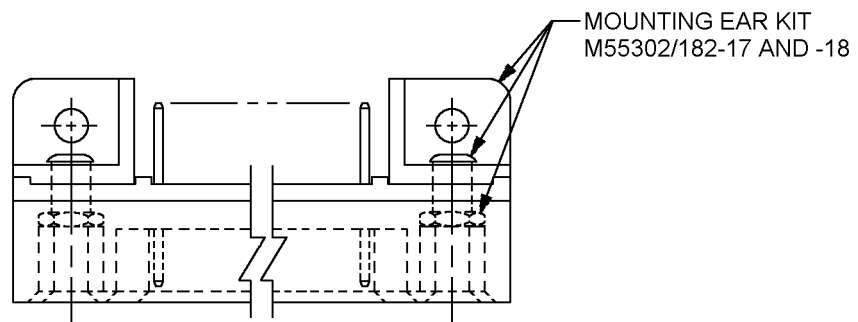
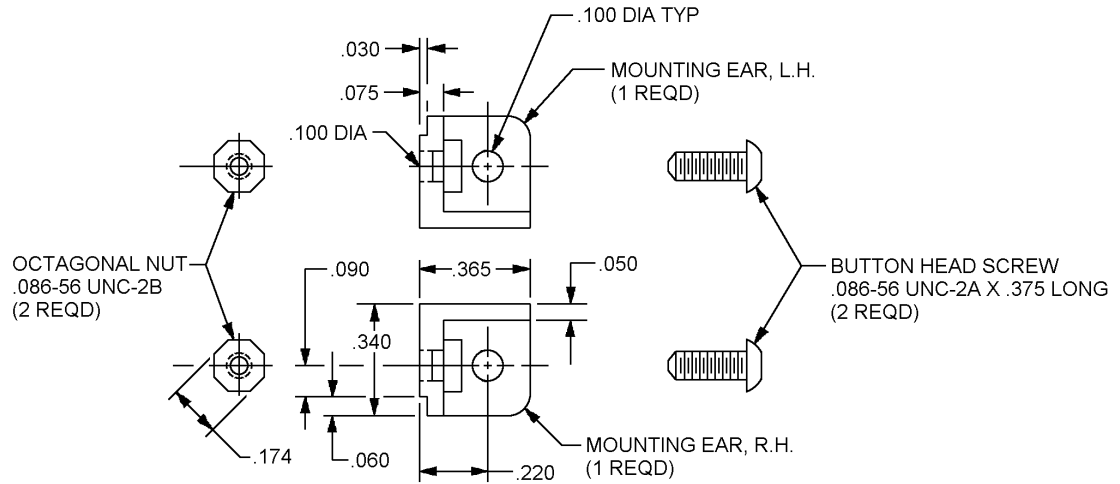


FIGURE 7. Installation of mounting ear for M55302/175, /178, and /181.

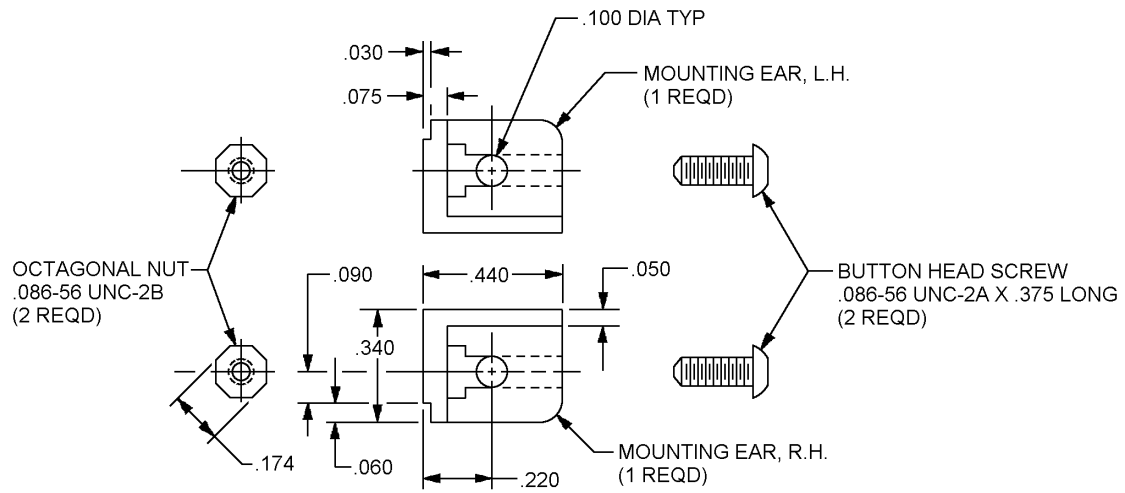


Inches	mm	Inches	mm
.030	0.76	.100	2.54
.050	1.27	.174	4.42
.060	1.52	.220	5.59
.075	1.90	.340	8.64
.086	2.18	.365	9.27
.090	2.29	.375	9.52

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm).

FIGURE 8. Mounting ear kit for M55302/175.



Type	Mounting ear kit	Figures
XI	M55302/182-17	7, 8
XII	M55302/182-18	7, 9

Inches	mm	Inches	mm
.030	0.76	.100	2.54
.050	1.27	.174	4.42
.060	1.52	.220	5.59
.075	1.90	.340	8.64
.086	2.18	.375	9.52
.090	2.29	.440	11.18

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm).

FIGURE 9. Mounting ear kit for M55302/178 and M55302/181.

REQUIREMENTS:

Design and construction:

Dimensions and configurations: See figures 1 through 9.

Material:

Types I through III:

Guide pin: Stainless steel in accordance with ASTM A582.

Types IV through VI:

Guide pin: Stainless steel in accordance with ASTM A582.

Mounting nut: Stainless steel in accordance with ASTM A582.

Internal tooth lock washer: Stainless steel in accordance with ASTM A582.

Types VII through X:

Knob: Stainless steel in accordance with ASTM A582.

Turnable jackscrew: Stainless steel in accordance with ASTM A582.

Fixed jackscrew: Stainless steel in accordance with ASTM A582.

Spiral pin: Stainless steel in accordance with ASTM A240 or ASTM A666 or ASTM A693.

Types XI and XII:

Mounting ear: In accordance with MIL-DTL-55302.

Octagonal nut: Stainless steel in accordance with ASTM A582.

Button head screw: Alloy steel in accordance with ASTM A574.

Finish:

Types I through III:

Guide pin: Passivate in accordance with SAE-AMS-QQ-P-35 or ASTM A967.

Types IV through VI:

Guide pin: Passivate in accordance with SAE-AMS-QQ-P-35 or ASTM A967.

Mounting nut: Passivate in accordance with SAE-AMS-QQ-P-35 or ASTM A967.

Internal tooth lock washer: Passivate in accordance with SAE-AMS-QQ-P-35 or ASTM A967.

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Types VII through X:

Knob: Passivate in accordance with SAE-AMS-QQ-P-35 or ASTM A967.

Turnable jackscrew: Passivate in accordance with SAE-AMS-QQ-P-35 or ASTM A967.

Fixed jackscrew: Passivate in accordance with SAE-AMS-QQ-P-35 or ASTM A967.

Spiral pin: Passivate in accordance with SAE-AMS-QQ-P-35 or ASTM A967.

Types XI and XII:

Octagonal nut: Passivate in accordance with SAE-AMS-QQ-P-35 or ASTM A967.

Button head screw: Black thermal oxide.

Application:

Types I through VI shall be used with connectors found in M55302/176 and /179.

Types VII and IX shall be used with connectors found in M55302/176, /177, /179, and /180.

Types VIII and X shall be used with connectors found in M55302/173 and /174.

Type XI shall be used with connectors found in M55302/175.

Type XII shall be used with connectors found in M55302/178 and /181.

Installation:

Types I through VI: See figure 1.

Types VII through X: See figures 4 and 5.

Types XI and XII: See figure 7.

CONCLUDING MATERIAL

Custodians:

Army – CR
Navy - EC
Air Force - 11
DLA – CC

Preparing activity:

DLA - CC

(Project 5935-4468)

Review activities:

Army – AR, AT, AV, CR4, MI
Navy – AS, MC, SH
Air Force - 19, 99